

SEQUENCE LISTING

<110> C. Frank Bennett
Kenneth Dobie

<120> ANTISENSE MODULATION OF B-CELL ASSOCIATED PROTEIN EXPRESSION

<130> RTS-0303

<160> 88

<210> 1

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 1

tccgtcatcg ctcttcaggg

20

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 2

Patent 8240297

20

<211> 1416

<212> DNA

<213> Homo sapiens

<220>

 $\langle 220 \rangle$

<221> CDS

<222> (186) ... (1085)

<400> 3

aagttcgggt ccgtagtggg ctaaggggga gggtttcaaa gggagcgcac ttccgctgcc 60

ctttctttcg ccagccttac gggcccgaac cctcgtgtga aggggtgcagt acctaagccg 120

gagcggggta gaggcggggc ggcacccccct tctgacctcc agtgccgccg gcctcaagat 180

cagac atg gcc cag aac ttg aag gac ttg gcg gga cgg ctg ccc gcc ggg 230

Met Ala Gln Asn Leu Lys Asp Leu Ala Gly Arg Leu Pro Ala Gly

1 5 10 15

ccc cgg ggc atg ggc acg gcc ctg aag ctg ttg ctg ggg gcc ggc gcc 278

Pro Arg Gly Met Gly Thr Ala Leu Lys Leu Leu Leu Gly Ala Gly Ala

20 25 30

gtg gcc tac ggt gtg cgc gaa tct gtg ttc acc gtg gaa ggc ggg cac 326

Val Ala Tyr Gly Val Arg Glu Ser Val Phe Thr Val Glu Gly Gly His

35 40 45

aga gcc atc ttc ttc aat cgg atc ggt gga gtg cag cag gac act atc 374

Arg Ala Ile Phe Phe Asn Arg Ile Gly Gly Val Gln Gln Asp Thr Ile

50 55 60

ctg gcc gag ggc ctt cac ttc agg atc cct tgg ttc cag tac ccc att 422

[illegible]

[illegible]

aaa att gtg cag gcc gag ggt gag gcc gag gct gcc aag atg ctt gga 902
Lys Ile Val Gln Ala Glu Gly Glu Ala Glu Ala Ala Lys Met Leu Gly
225 230 235

gaa gca ctg agc aag aac cct ggc tac atc aaa ctt cgc aag att cga 950
Glu Ala Leu Ser Lys Asn Pro Gly Tyr Ile Lys Leu Arg Lys Ile Arg
240 245 250 255

gca gcc cag aat atc tcc aag acg atc gcc aca tca cag aat cgt atc 998
Ala Ala Gln Asn Ile Ser Lys Thr Ile Ala Thr Ser Gln Asn Arg Ile
260 265 270

tat ctc aca gct gac aac ctt gtg ctg aac cta cag gat gaa agt ttc 1046
Tyr Leu Thr Ala Asp Asn Leu Val Leu Asn Leu Gln Asp Glu Ser Phe
275 280 285

acc agg gga agt gac agc ctc atc aag ggt aag aaa tga gcctagtcac 1095
Thr Arg Gly Ser Asp Ser Leu Ile Lys Gly Lys Lys
290 295

caagaactcc acccccagag gaagtggatc tgcttctcca gtttttgagg agccagccag 1155

gggtccagca cagccctacc ccgccccagt atcatgcgat ggtccccac accggttccc 1215

tgaaccctc ttggattaag gaagactgaa gactagcccc ttttctggga aattactttc 1275

ctcctccctg tgtaactgg ggctgttggg gacagtgcgt gatttctcag tgatttcta 1335

cagtgttgtt cctccctca aggctgggag gagataaaca ccaaccagc aattctcaat 1395

aaatttttat tacttaacct g 1416

<210> 4

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 4

21

gcaagaaccc tggctacatc a

<210> 5

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 5

20

gtggcgatcg tcttggagat

<210> 6

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Probe

<400> 6

24

acttcgcaag attcgagcag ccca

<210> 7

<211> 19

<212> DNA

TOP SECRET 340001

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 7

19

gaaggtgaag gtcggagtc

<210> 8

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 8

20

gaagatggtg atgggatttc

<210> 9

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Probe

<400> 9

20

caagcttccc gttctcagcc

<210> 10

<211> 6000

Patent 3240001

<212> DNA

<213> Homo sapiens

<220>

<221> intron

<222> (576)...(711)

<223> intron 1

<221> exon:intron junction

<222> (796)...(797)

<223> exon 2:intron 2

<221> intron:exon junction

<222> (1414)...(1415)

<223> intron 2:exon 3

<221> exon:intron junction

<222> (1494)...(1495)

<223> exon 3:intron 3

<221> intron

<222> (1495)...(2396)

<223> intron 3

<221> exon

<222> (3213)...(3316)

<223> exon 6

<221> exon:intron junction

<222> (3316)...(3317)

<223> exon 6:intron 6

<221> intron

<222> (3317)...(3743)

<223> intron 6

<221> intron:exon junction

TOP SECRET 92402001

<222> (5075)...(5076)

<223> intron 8:exon 9

<400> 10

tcccagtcct gtgcctgctc cccaccgctt cgttcacgag gcttgaatcc atcactgggc 60

gcggccatct tgcaacaata ccggaagttg cgctaacgct cttaaataag aacagcgcg 120

cttctaata caaatttctt tccggctgcc attttgaaag tgggccagga aatggagatg 180

acttgctgtc ttgcgctgcc ctccctggga gggcagcctt ccagaaagg gcgggacttc 240

cgtatgcgcg attcctgtgc gcgaagttcg ggtccgtagt gggctaagg ggagggtttc 300

aaaggagcg cacttccgct gccctttctt tcgccagcct tacgggcccg aaccctcgtg 360

tgaagggtgc agtacctaag ccgagcgagg gtagaggcgg gccggcacc ccttctgacc 420

tccagtgcg ccggcctcaa gatcagacat ggcccagaac ttgaaggact tggcgggacg 480

gctgcccgcg gggccccggg gcatgggcac ggccctgaag ctggtgctgg gggccggcgc 540

cgtggcctac ggtgtgcgcg aatctgtgtt caccggtgag caacctccg ctgctcgccg 600

gacgcttcca gtccctcccc caaaccctt gccctgtccc cgcgccctc cacgggccta 660

gcatttctc tgagcagcgg cctggcctga tcaccacca tctccccaca gtggaaggcg 720

ggcacagagc catcttctc aatcggatcg gtggagtgc gcaggacact atcctggccg 780

agggccttca cttcaggtaa tggcgggcag agcctgctga ccctgacctt tcaccttga 840

cgccgacca gcagtggcta tagtcggacg tgcaacagga ttcaacgctg ctcttttccc 900

accctctca tccctgcccc taggatagtg ggtgctgcga gaacctccag cagcatacaa 960

actgttgttt tccagagga caagagaatc tctcctgtc tgtggtcgtg gagaggagca 1020

10020478 121304

ggccaaaaaa cgcgtggtga ggggaaaccg ggcaaggcta gtgaaactgc ggccttttct 1080

tttttttttt ttggagaggg agtcttgctc tgtcgccag gctggagtgc agtggcgga 1140

tctcggtca ctgcaacctc cgctcctga tttcaagcga ttctcctgcc tcagcctcac 1200

gagtagctgg gattacaggc gcccgccacc acgcccggct aatttttgta ttttagtaga 1260

gacgggggtt cactatgtag atcaagctgg tctcgaactc ctgacctcaa atgatccgcc 1320

cgctcggcc tcccaaagtg ctgggattac aggcgtgagc caccgcgcc gccgaaact 1380

gtggcctctt aatacctatc cctgtcctct ccaggatccc ttggttcag taccattata 1440

tctatgacat tcgggccaga cctcgaaaaa tctcctcccc tacaggctcc aaaggtaggt 1500

ctgagcactt ggtaatcaca tggcaggtgg gatgatcaag gtagctggca agaaacccca 1560

ggggaatatg gtagtgtcag gcctttaggc ctctttccac atctgcaaga gctgtaacaa 1620

aaatacctgc ctctgggggt caaagcagca aattctgaac aactgtgtt tgcgtgcttt 1680

ttactgtctc ctccctgacg tgtattcaat aagagtattg tttgtccctc gtcttggtca 1740

ctgcctagat caaagctttg ttttaaagcc ttttttttct aactgcttga cttactatat 1800

ctacagttac atccactagt acactctgtt ctggagaagt ttgtccctaa gcttgactag 1860

ttcacctgtt ctctccttct agaccatata taaaagccgt gcctttgagt tccccagacc 1920

tcttctcct cccacccac gcacacatat acaccctggg tcaggtagct cacctgtaac 1980

ctgtaatgta cttctttgtg ctatacctag tgcaggtcgc ttattcattt actagactgg 2040

gccctgggaa taaaagattc attaaacaca attcttgtcc cccaagtct tacaggagac 2100

atgattacgg tacagcacga aagcgccac gttagaggtt gcacagagta cagaggggga 2160

"FOE12F" B440204

aagagtagtc agctctgctg gtgacggggt ttgcagttca aggccttcaca gtgggtgagg 2220

gtgcatttca gctgtgctgc gtcttgtctt ccttgtcagc ctgattaact ctccctcccc 2280

cagggtagtg ccaggctgta caccattgca cagggcatac agggaggaac atgaaggaga 2340

aaatgcttgg gaaaggggtg ttggccttga ccagccactg ctgacctcaa tctcagacct 2400

acagatggtg aatatctccc tgcgagtgtt gtctcgacct aatgctcagg agcttcctag 2460

catgtaccag cgccatgggc tggactacga ggaacgagtg ttgccgtcca ttgtcaacga 2520

ggtgctcaag agtgtgggtg ccaagttcaa tgcctcacag ctgatcacc agcggggcca 2580

ggtctgactc ccaccaccat ctgcgtggtg tcagcctttc ctccctaggc ccagagtatt 2640

gggaattagg aaaggcagct tattagaaaa gcattgtcac cctagtgcc tttccaccta 2700

aaagctgtgc taattgccac tgtgaaataa ggagagccag cattagaact cgatagcact 2760

cggtgttagg aagcacagag gaaaatggcc aagtcttggc ttttcctgca cctcttcgag 2820

cagagaggct tatgttacag gtttgccctga caggaagcta aggcagtgc tgttgtattg 2880

agagtgaagg gttaggggtc gcaaccttcc tttcagctcc ccagtcccct caaaccaccc 2940

ctcccttccc ctcttcaccc ctgccctcag gtatccctgt tgatccgccg ggagctgaca 3000

gagagggcca aggacttcag cctcatcctg gatgatgtgg ccatcacaga gctgagcttt 3060

agccgagagt acacagctgc tgtagaagcc aaacaagtgg gtgagtcgca agagccgtgg 3120

ggtgagggct tctgagatgc aggaggagga aagactccat ggggtggggct cctgaccag 3180

gacagggctt ccctgactct ctcccaccac agcccagcag gaggcccagc gggcccaatt 3240

cttggtagaa aaagcaaagc aggaacagcg gcagaaaatt gtgcaggccg aggggtgaggc 3300

40020475 124304

cgaggctgcc aagatgatat ccttctgctg gagagatctc agcccagccc ctagggcacc 3360
tgagttcccc attctccttc atgggcaggc tgatgagact aaggcgaatg cgactccgtg 3420
ctctctggcc cttggctcct tgttgggggt ggggactaca gatgagatct gaaatcttag 3480
tggtagtacc tgagccatga ctccccactg taaggccaga tcaatagcat tgggtggcctt 3540
gccttcattt ctggtgctgc ccctagttcc tggcagcagc ctgcaggag gcccacaggt 3600
ggggtccacg gtagggctgg gcacaagcca cctgagcgca accttgatc tgacagccca 3660
gaggaggact ggagcaaggg agtgtggtaa ggacagggcc agggattgag acctgccctt 3720
gcgtgtacct taacctcct caccttgag aagcactgag caagaaccct ggctacatca 3780
aacttcgcaa gattcgagca gccagaata tctccaagac ggtgagtgtg tcagcccagc 3840
gtctctgatg gggctgcctt gagaaagtgc tttcagttaa ggcacattga ggtgaggaa 3900
ttcgaacctt gcttgttccg gtttctactc agattggctt ctctggcccg cgcggtggct 3960
cacgcatgta atccccgcac tttgggaggc caagggtgggt ggatcacctg aggtcaggag 4020
ttcgagacca gcctggccaa catggtgaaa ccccatctct actaaaaata caaaagataa 4080
tgagcccgt gtggtggcgt ttagctatat tcccagctac gcaggaggct gaggcaggag 4140
aatcacttga acccaggagg cggaagtgc agtgagctga gatcatgcca ctgcactcca 4200
gcctgagcaa cagagcaaga ctccgtctca aaaataaata aataaaaaat tggcttctcc 4260
gatactcctc ctgtcaagaa tgattcctct gggttccctg accttttgtt ctaatcatag 4320
ctgctgctca gcgctctgga tccctaagtg cgagcagaaa ccatgtgtta ctattgctg 4380
caccctgcc ctaatctgca tgtgttccat gttaagtagc tgetgaattg caggggtcgg 4440

PATENT "B403001"

aattgaggtc tttgcttaat gcaagcatct gtcttatttc ctgccctgta gatcgccaca 4500

tcacagaatc gtatctatct cacagctgac aaccttgtgc tgaacctaca ggatgaaagt 4560

ttcaccaggt gagagatgtg gccacactgt ggggtatcac caagaacgtg ggacctgagt 4620

ctggttgttt gggctctgga gcctgctaca gctattcata tggctcagag acattgaacc 4680

aaaattagaa aagggggtgg ttgacagttt ctatcttgca tctcatagga ttgattttat 4740

gagatcaaat aggattattc acataaaaag cactttaatt ataaagtttt catctaacca 4800

aaaagtgatg aaagatgata ctgagttttc ttactcaaga gccctcaaac tcctctgggtg 4860

aatggagggg tgtaggaaa ggagatgaga aatagcagtg gccatgagaa catgcctcct 4920

cctttcatga gcctgagatt cctggctgtc aaccctgttt atcttttctc ttgggagcaa 4980

aggaggggtc aaagctgagt ggggcctgaa gctgtcaatt aacatgtgca tttctcttct 5040

ctgtttcttg ttcatctggc gatctggcac cacaggggaa ggtaagctgt tgtagcttct 5100

gtgggggtcct gcaggccacc ttctccagta cccgcctcct accctacccc ctttcccacc 5160

tccccgaaga caaacctca atcagggtag gagggctgta gagggaatgg cctagagtgt 5220

cctgcctctc acatztatgt cccctaataa tgtcattatc tatctttttt ttectacagt 5280

gacagcctca tcaagggtaa gaaatgagcc tagtcaccaa gaactccacc ccagaggaa 5340

gtggatctgc ttctccagtt tttagaggagc cagccagggg tccagcacag cctaccccg 5400

ccccagtatc atgcgatggc cccccacacc ggttccctga acccctcttg gattaaggaa 5460

gactgaagac tagccccctt tctggggaat tactttctc ctccctgtgt taactggggc 5520

tgtaggggac agtgcgatgat ttctcagtga ttctctacag tgtagttccc tccctcaagg 5580

PATENT 343007

ctgggaggag ataaacacca acccaggaat tctcaataaa tttttattac ttaacctgaa 5640
gtcaaggctt cacgtgttca tgaactgggt aactggcagc aagcatgccc acgttcacat 5700
gtgcgctcct gggctctgtct ttgtgtgtgc cagcaggggg cgcaaaagaa tctggctggg 5760
gcggctaagg ggaagcaagg cctgggctcc gaaacaggac ccaagctggg aaggctggcc 5820
ctgagttctc gagggccagc tgtgctcttc acacaccctc catttctccc acatcaccca 5880
tttttttaag gctggacagc catggctttg ctgagccaga ttaaaaatct gatgacccca 5940
acaggagctg cttccttggc agcaggggtc cttgtggctg tggggagcct gcctgtgcct 6000

<210> 11

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 11

cccactacgg acccgaactt

20

<210> 12

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 12

T E T " B L O O T

tgcgctccct ttgaaaccct

20

<210> 13

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 13

cagcggaagt gcgctccctt

20

<210> 14

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 14

aaggctggcg aaagaaaggg

20

<210> 15

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

Patent Sheet

<400> 18

tcttgaggcc ggcggcactg

20

<210> 19

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 19

tctgatcttg aggccggcgg

20

<210> 20

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 20

agttctgggc catgtctgat

20

<210> 21

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

Patent 3,420,001

<223> Antisense Oligonucleotide

<400> 21

tccttcaagt tctgggccat

20

<210> 22

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 22

gtcccgccaa gtccttcaag

20

<210> 23

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 23

agcaacagct tcagggccgt

20

<210> 24

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

106727 32702007

<223> Antisense Oligonucleotide

<400> 24

ccgccttcca cggatgaacac

20

<210> 25

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 25

ctgcactcca ccgatccgat

20

<210> 26

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 26

ccaagggatc ctgaagtga

20

<210> 27

<211> 20

<212> DNA

<213> Artificial Sequence

1000043-1304

20

20

20

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 30

caacactcgc agggagatat

20

<210> 31

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 31

gcaacactcg ttcctcgtag

20

<210> 32

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 32

ttgagcacct cgttgacaat

20

<210> 33

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 33

accacactct tgagcacctc

20

<210> 34

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 34

ttggccacca cactcttgag

20

<210> 35

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 35

ttgaacttgg ccaccacact

20

<210> 36

<211> 20

Patented 1994

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 36

gaggcattga acttgccac

20

<210> 37

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 37

gatcagctgt gaggcattga

20

<210> 38

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 38

gcccgctggg tgatcagctg

20

<210> 39

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 39

aggaaatgct aggcccgtagg

20

<210> 40

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 40

ggatcaacag ggatacctgg

20

<210> 41

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 41

tgaagtcctt ggccctctct

20

Patent 342007

<210> 42

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 42

atgaggctga agtccttggc

20

<210> 43

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 43

tccaggatga ggctgaagtc

20

<210> 44

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 44

acatcatcca ggatgaggct

20

T.D.T. 3-402001

<210> 45

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 45

gtgatggcca catcatccag

20

<210> 46

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 46

ctctcggcta aagctcagct

20

<210> 47

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 47

gcagctgtgt actctcggct

20

TOELET 82402001

<210> 48

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 48

tctacagcag ctgtgtactc

20

<210> 49

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 49

ttggcttcta cagcagctgt

20

<210> 50

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 50

10020479-12101

attacctgaa gtgaaggccc

20

<210> 51

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 51

tcctgctggg ccacttgttt

20

<210> 52

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 52

tctaccaaga attgggcccg

20

<210> 53

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

Patent 340001

20

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

20

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

20

<213> Artificial Sequence

$\langle 220 \rangle$

<223> Antisense Oligonucleotide

<400> 56

ttcttgctca gtgcttctcc

20

<210> 57

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 57

cagggttctt gctcagtgt

20

<210> 58

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 58

agtttgatgt agccagggtt

20

<210> 59

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

For Patent B2402001

<223> Antisense Oligonucleotide

<400> 59

tgggctgctc gaatcttgcg

20

<210> 60

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 60

gtcttgagga tattctgggc

20

<210> 61

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 61

atgtggcgat cgtcttgag

20

<210> 62

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

000043 340200

<223> Antisense Oligonucleotide

<400> 62

ttctgtgatg tggcgatcgt

20

<210> 63

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 63

tacgattctg tgatgtggcg

20

<210> 64

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 64

agatagatac gattctgtga

20

<210> 65

<211> 20

<212> DNA

<213> Artificial Sequence

Patent 3240003

<220>

<223> Antisense Oligonucleotide

<400> 65

ttgtcagctg tgagatagat

20

<210> 66

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 66

caaggttgtc agctgtgaga

20

<210> 67

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 67

ttcagcaciaa ggttgtcagc

20

<210> 68

<211> 20

<212> DNA

<213> Artificial Sequence

for sequence

<220>

<223> Antisense Oligonucleotide

<400> 68

tcctgtaggt tcagcacaag

20

<210> 69

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 69

tcccctggtg aaactttcat

20

<210> 70

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 70

ccttgatgag gctgtcactt

20

<210> 71

<211> 20

<212> DNA

TOGETHER B/42001

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 71

tgactaggct catttcttac

20

<210> 72

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 72

gtggagttct tggtagtag

20

<210> 73

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 73

gcagatccac ttcctctggg

20

<210> 74

<211> 20

10020479 10020479

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 74

ctggaccctt ggctggctcc

20

<210> 75

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 75

ggtagggctg tgctggaccc

20

<210> 76

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 76

gggaccatcg catgatactg

20

<210> 77

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 77

agtcttcctt aatccaagag

20

<210> 78

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 78

ccccagttaa cacagggagg

20

<210> 79

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 79

tcacgcactg tccccaacag

20

Patent 82402001

<210> 80

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 80

cctgggttg tgtttatctc

20

<210> 81

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 81

tttattgaga attcctgggt

20

<210> 82

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 82

taaaaattta ttgagaattc

20

Patent 342001

<210> 83

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 83

ccaagggatc ctggagagga

20

<210> 84

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 84

tcagacctac ctttgagcc

20

<210> 85

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 85

acaaacaata ctcttattga

20

TOGETHER

<210> 86

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 86

agaaggatat catcttggca

20

<210> 87

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 87

aggtactacc actaagattt

20

<210> 88

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 88

Patent 340001

RTS-0303

- 40 -

PATENT

aacagcttac cttcccctgt

20

Figure 1. The effect of the concentration of the *Agaricus bisporus* spores on the growth of *Agaricus bisporus* on the substrate. The concentration of the spores was 10⁴ spores/ml (a), 10⁵ spores/ml (b), 10⁶ spores/ml (c), 10⁷ spores/ml (d), 10⁸ spores/ml (e), 10⁹ spores/ml (f), 10¹⁰ spores/ml (g), 10¹¹ spores/ml (h), 10¹² spores/ml (i), 10¹³ spores/ml (j), 10¹⁴ spores/ml (k), 10¹⁵ spores/ml (l), 10¹⁶ spores/ml (m), 10¹⁷ spores/ml (n), 10¹⁸ spores/ml (o), 10¹⁹ spores/ml (p), 10²⁰ spores/ml (q), 10²¹ spores/ml (r), 10²² spores/ml (s), 10²³ spores/ml (t), 10²⁴ spores/ml (u), 10²⁵ spores/ml (v), 10²⁶ spores/ml (w), 10²⁷ spores/ml (x), 10²⁸ spores/ml (y), 10²⁹ spores/ml (z), 10³⁰ spores/ml (aa), 10³¹ spores/ml (ab), 10³² spores/ml (ac), 10³³ spores/ml (ad), 10³⁴ spores/ml (ae), 10³⁵ spores/ml (af), 10³⁶ spores/ml (ag), 10³⁷ spores/ml (ah), 10³⁸ spores/ml (ai), 10³⁹ spores/ml (aj), 10⁴⁰ spores/ml (ak), 10⁴¹ spores/ml (al), 10⁴² spores/ml (am), 10⁴³ spores/ml (an), 10⁴⁴ spores/ml (ao), 10⁴⁵ spores/ml (ap), 10⁴⁶ spores/ml (aq), 10⁴⁷ spores/ml (ar), 10⁴⁸ spores/ml (as), 10⁴⁹ spores/ml (at), 10⁵⁰ spores/ml (au), 10⁵¹ spores/ml (av), 10⁵² spores/ml (aw), 10⁵³ spores/ml (ax), 10⁵⁴ spores/ml (ay), 10⁵⁵ spores/ml (az), 10⁵⁶ spores/ml (ba), 10⁵⁷ spores/ml (bb), 10⁵⁸ spores/ml (bc), 10⁵⁹ spores/ml (bd), 10⁶⁰ spores/ml (be), 10⁶¹ spores/ml (bf), 10⁶² spores/ml (bg), 10⁶³ spores/ml (bh), 10⁶⁴ spores/ml (bi), 10⁶⁵ spores/ml (bj), 10⁶⁶ spores/ml (bk), 10⁶⁷ spores/ml (bl), 10⁶⁸ spores/ml (bm), 10⁶⁹ spores/ml (bn), 10⁷⁰ spores/ml (bo), 10⁷¹ spores/ml (bp), 10⁷² spores/ml (bq), 10⁷³ spores/ml (br), 10⁷⁴ spores/ml (bs), 10⁷⁵ spores/ml (bt), 10⁷⁶ spores/ml (bu), 10⁷⁷ spores/ml (bv), 10⁷⁸ spores/ml (bw), 10⁷⁹ spores/ml (bx), 10⁸⁰ spores/ml (by), 10⁸¹ spores/ml (bz), 10⁸² spores/ml (ca), 10⁸³ spores/ml (cb), 10⁸⁴ spores/ml (cc), 10⁸⁵ spores/ml (cd), 10⁸⁶ spores/ml (ce), 10⁸⁷ spores/ml (cf), 10⁸⁸ spores/ml (cg), 10⁸⁹ spores/ml (ch), 10⁹⁰ spores/ml (ci), 10⁹¹ spores/ml (cj), 10⁹² spores/ml (ck), 10⁹³ spores/ml (cl), 10⁹⁴ spores/ml (cm), 10⁹⁵ spores/ml (cn), 10⁹⁶ spores/ml (co), 10⁹⁷ spores/ml (cp), 10⁹⁸ spores/ml (cq), 10⁹⁹ spores/ml (cr), 10¹⁰⁰ spores/ml (cs), 10¹⁰¹ spores/ml (ct), 10¹⁰² spores/ml (cu), 10¹⁰³ spores/ml (cv), 10¹⁰⁴ spores/ml (cw), 10¹⁰⁵ spores/ml (cx), 10¹⁰⁶ spores/ml (cy), 10¹⁰⁷ spores/ml (cz), 10¹⁰⁸ spores/ml (da), 10¹⁰⁹ spores/ml (db), 10¹¹⁰ spores/ml (dc), 10¹¹¹ spores/ml (dd), 10¹¹² spores/ml (de), 10¹¹³ spores/ml (df), 10¹¹⁴ spores/ml (dg), 10¹¹⁵ spores/ml (dh), 10¹¹⁶ spores/ml (di), 10¹¹⁷ spores/ml (dj), 10¹¹⁸ spores/ml (dk), 10¹¹⁹ spores/ml (dl), 10¹²⁰ spores/ml (dm), 10¹²¹ spores/ml (dn), 10¹²² spores/ml (do), 10¹²³ spores/ml (dp), 10¹²⁴ spores/ml (dq), 10¹²⁵ spores/ml (dr), 10¹²⁶ spores/ml (ds), 10¹²⁷ spores/ml (dt), 10¹²⁸ spores/ml (du), 10¹²⁹ spores/ml (dv), 10¹³⁰ spores/ml (dw), 10¹³¹ spores/ml (dx), 10¹³² spores/ml (dy), 10¹³³ spores/ml (dz), 10¹³⁴ spores/ml (ea), 10¹³⁵ spores/ml (eb), 10¹³⁶ spores/ml (ec), 10¹³⁷ spores/ml (ed), 10¹³⁸ spores/ml (ee), 10¹³⁹ spores/ml (ef), 10¹⁴⁰ spores/ml (eg), 10¹⁴¹ spores/ml (eh), 10¹⁴² spores/ml (ei), 10¹⁴³ spores/ml (ej), 10¹⁴⁴ spores/ml (ek), 10¹⁴⁵ spores/ml (el), 10¹⁴⁶ spores/ml (em), 10¹⁴⁷ spores/ml (en), 10¹⁴⁸ spores/ml (eo), 10¹⁴⁹ spores/ml (ep), 10¹⁵⁰ spores/ml (eq), 10¹⁵¹ spores/ml (er), 10¹⁵² spores/ml (es), 10¹⁵³ spores/ml (et), 10¹⁵⁴ spores/ml (eu), 10¹⁵⁵ spores/ml (ev), 10¹⁵⁶ spores/ml (ew), 10¹⁵⁷ spores/ml (ex), 10¹⁵⁸ spores/ml (ey), 10¹⁵⁹ spores/ml (ez), 10¹⁶⁰ spores/ml (fa), 10¹⁶¹ spores/ml (fb), 10¹⁶² spores/ml (fc), 10¹⁶³ spores/ml (fd), 10¹⁶⁴ spores/ml (fe), 10¹⁶⁵ spores/ml (ff), 10¹⁶⁶ spores/ml (fg), 10¹⁶⁷ spores/ml (fh), 10¹⁶⁸ spores/ml (fi), 10¹⁶⁹ spores/ml (fj), 10¹⁷⁰ spores/ml (fk), 10¹⁷¹ spores/ml (fl), 10¹⁷² spores/ml (fm), 10¹⁷³ spores/ml (fn), 10¹⁷⁴ spores/ml (fo), 10¹⁷⁵ spores/ml (fp), 10¹⁷⁶ spores/ml (fq), 10¹⁷⁷ spores/ml (fr), 10¹⁷⁸ spores/ml (fs), 10¹⁷⁹ spores/ml (ft), 10¹⁸⁰ spores/ml (fu), 10¹⁸¹ spores/ml (fv), 10¹⁸² spores/ml (fw), 10¹⁸³ spores/ml (fx), 10¹⁸⁴ spores/ml (fy), 10¹⁸⁵ spores/ml (fz), 10¹⁸⁶ spores/ml (ga), 10¹⁸⁷ spores/ml (gb), 10¹⁸⁸ spores/ml (gc), 10¹⁸⁹ spores/ml (gd), 10¹⁹⁰ spores/ml (ge), 10¹⁹¹ spores/ml (gf), 10¹⁹² spores/ml (gg), 10¹⁹³ spores/ml (gh), 10¹⁹⁴ spores/ml (gi), 10¹⁹⁵ spores/ml (gj), 10¹⁹⁶ spores/ml (gk), 10¹⁹⁷ spores/ml (gl), 10¹⁹⁸ spores/ml (gm), 10¹⁹⁹ spores/ml (gn), 10²⁰⁰ spores/ml (go), 10²⁰¹ spores/ml (gp), 10²⁰² spores/ml (gq), 10²⁰³ spores/ml (gr), 10²⁰⁴ spores/ml (gs), 10²⁰⁵ spores/ml (gt), 10²⁰⁶ spores/ml (gu), 10²⁰⁷ spores/ml (gv), 10²⁰⁸ spores/ml (gw), 10²⁰⁹ spores/ml (gx), 10²¹⁰ spores/ml (gy), 10²¹¹ spores/ml (gz), 10²¹² spores/ml (ha), 10²¹³ spores/ml (hb), 10²¹⁴ spores/ml (hc), 10²¹⁵ spores/ml (hd), 10²¹⁶ spores/ml (he), 10²¹⁷ spores/ml (hf), 10²¹⁸ spores/ml (hg), 10²¹⁹ spores/ml (hh), 10²²⁰ spores/ml (hi), 10²²¹ spores/ml (hj), 10²²² spores/ml (hk), 10²²³ spores/ml (hl), 10²²⁴ spores/ml (hm), 10²²⁵ spores/ml (hn), 10²²⁶ spores/ml (ho), 10²²⁷ spores/ml (hp), 10²²⁸ spores/ml (hq), 10²²⁹ spores/ml (hr), 10²³⁰ spores/ml (hs), 10²³¹ spores/ml (ht), 10²³² spores/ml (hu), 10²³³ spores/ml (hv